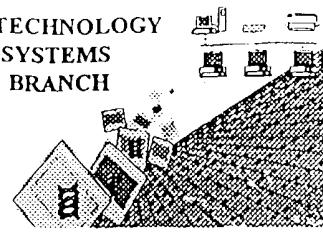# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/666,806

Source: _IFWD_

Date Processed by STIC: 3/24/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        <u>http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm</u>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<u><http://www.uspto.gov/ebc/efs/downloads/documents.htm></u> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
    U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: *10/666, 806*

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
prevent "wrapping."

2 _____ Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
Numbering   use space characters, instead.

4 _____ Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length   Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules,
each n or Xaa can only represent a single residue. Please present the maximum number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
"bug"   sequences(s) _____ . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.

7 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
(NEW RULES)   <210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
is Artificial Sequence

11 _____ Use of <220>   Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
"Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n/Xaa   "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC – Biotechnology Systems Branch – 09/09/2003

RAW SEQUENCE LISTING   DATE: 03/24/2004
PATENT APPLICATION: US/10/666,806   TIME: 15:09:10

Input Set : A:\4798 Seq List.ST25.txt
Output Set: N:\CRF4\03242004\J666806.raw

```
 3 <110> APPLICANT: Aydin, Atakan
 5 <120> TITLE OF INVENTION: Methods and Compositions for Detecting Targets
 7 <130> FILE REFERENCE: 4798US
 9 <140> CURRENT APPLICATION NUMBER: US 10/666,806
10 <141> CURRENT FILING DATE: 2003-09-19
12 <150> PRIOR APPLICATION NUMBER: US 60/412,189
13 <151> PRIOR FILING DATE: 2002-09-19
15 <160> NUMBER OF SEQ ID NOS: 10
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 49
21 <212> TYPE: DNA
C--> 22 <213> ORGANISM: Homo sapiens and Artificial
W--> 24 <220> FEATURE:
W--> 24 <223> OTHER INFORMATION:
W--> 24 <400> 1
25 ttgcctgctc gacttagatc aaaggagacg cggctgcttt cagcctcat                49
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 49
30 <212> TYPE: DNA
C--> 31 <213> ORGANISM: Homo sapiens and Artificial
W--> 33 <220> FEATURE:
W--> 33 <223> OTHER INFORMATION:
W--> 33 <400> 2
34 ttgcctgctc gacttagagg gtcacagtag gtggtgcttt cagcctcac                49
37 <210> SEQ ID NO: 3
38 <211> LENGTH: 33
39 <212> TYPE: DNA
C--> 40 <213> ORGANISM: Homo sapiens and Artificial
W--> 42 <220> FEATURE:
W--> 42 <223> OTHER INFORMATION:
W--> 42 <400> 3
43 ggggatagtg gctgcatcac tggatagcga cgt                                 33
46 <210> SEQ ID NO: 4
47 <211> LENGTH: 49
48 <212> TYPE: DNA
C--> 49 <213> ORGANISM: Homo sapiens and Artificial
W--> 51 <220> FEATURE:
W--> 51 <223> OTHER INFORMATION:
W--> 51 <400> 4
52 ttgcctgctc gacttagatc aaaggagacg cggcagtggt tttccaacg                49
55 <210> SEQ ID NO: 5
56 <211> LENGTH: 51
```

Handwritten annotations:
- Mandatory, <213> Response has to be either Artificial/ Unknown
- Does Not Comply / Corrected Diskette Needed OR (pg. 1-6)
- IF <213> Response is Artificial/ Unknown, please explain in Section <220> - <223>. Genus Species.
- Same error
- Please see item #10 on error summary sheet.
- Also pls see error explanation on page 3.

RAW SEQUENCE LISTING   DATE: 03/24/2004
PATENT APPLICATION: US/10/666,806   TIME: 15:09:10

Input Set : A:\4798 Seq List.ST25.txt
Output Set: N:\CRF4\03242004\J666806.raw

```
        57 <212> TYPE: DNA
C-->    58 <213> ORGANISM: Homo sapiens and Artificial      — same error
W-->    60 <220> FEATURE:
W-->    60 <223> OTHER INFORMATION:
W-->    60 <400> 5
        61 ttgcctgctc gacttagagg gtcacagtag gtggacagtg gttttccaac a        51
        64 <210> SEQ ID NO: 6
        65 <211> LENGTH: 32
        66 <212> TYPE: DNA
C-->    67 <213> ORGANISM: Homo sapiens and Artificial      — same error
W-->    69 <220> FEATURE:
W-->    69 <223> OTHER INFORMATION:
W-->    69 <400> 6
        70 tgaacacacc gggtatcact ggatagcgac gt                          32
        73 <210> SEQ ID NO: 7
        74 <211> LENGTH: 18
        75 <212> TYPE: DNA
        76 <213> ORGANISM: Artificial
        78 <220> FEATURE:
        79 <223> OTHER INFORMATION: Synthetic DNA
        81 <400> SEQUENCE: 7
        82 ttgcctgctc gacttaga                                          18
        85 <210> SEQ ID NO: 8
        86 <211> LENGTH: 18
        87 <212> TYPE: DNA
        88 <213> ORGANISM: Artificial
        90 <220> FEATURE:
        91 <223> OTHER INFORMATION: Synthetic DNA
        93 <400> SEQUENCE: 8
        94 acgtcgctat ccagtgat                                          18
        97 <210> SEQ ID NO: 9
        98 <211> LENGTH: 15
        99 <212> TYPE: DNA
       100 <213> ORGANISM: Homo sapiens
       102 <400> SEQUENCE: 9
       103 ccgcgtctcc tttga                                             15
       106 <210> SEQ ID NO: 10
       107 <211> LENGTH: 16
       108 <212> TYPE: DNA
       109 <213> ORGANISM: Homo sapiens
       111 <400> SEQUENCE: 10
       112 ccacctactg tgaccc                                            16
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/24/2004
PATENT APPLICATION: US/10/666,806   TIME: 15:09:11

Input Set : **A:\4798 Seq List.ST25.txt**
Output Set: **N:\CRF4\03242004\J666806.raw**

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8

Use of <220> Feature(NEW RULES):   *ERROR Explanation: 2*
Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:1,2,3,4,5,6

VERIFICATION SUMMARY   DATE: 03/24/2004
PATENT APPLICATION: **US/10/666,806**   TIME: 15:09:11

Input Set : **A:\4798 Seq List.ST25.txt**
Output Set: **N:\CRF4\03242004\J666806.raw**

```
L:22 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:24 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:24 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:24 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:24
L:31 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:33 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:2, <213>
ORGANISM:Artificial Sequence
L:33 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:2, <213>
ORGANISM:Artificial Sequence
L:33 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:33
L:40 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:42 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:3, <213>
ORGANISM:Artificial Sequence
L:42 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:3, <213>
ORGANISM:Artificial Sequence
L:42 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:42
L:49 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:51 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:4, <213>
ORGANISM:Artificial Sequence
L:51 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:4, <213>
ORGANISM:Artificial Sequence
L:51 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:51
L:58 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:60 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:60 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:60 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:60
L:67 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213>
ORGANISM:Artificial Sequence
L:69 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213>
ORGANISM:Artificial Sequence
L:69 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:69
```